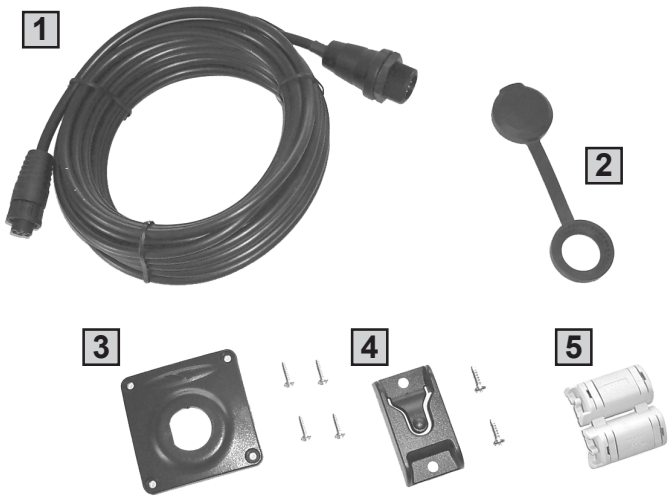
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference including received, interference that may cause undesired operation.

## Included Accessories and replacement part numbers

1. 23-Foot Routing Cable (S8101512)
2. Rubber Cap (RA052520A)
3. Mounting Bracket (RA052510) & Screws (U24312020 x 4 pcs)
4. Microphone Hanger (RA458800: Black or RA436000: White) & Screws (U40412220 x 2 pcs)
5. Ferrite Core (L9190182)




**VERTEX STANDARD CO., LTD.**
4-8-8 Nakameguro, Meguro-Ku, Tokyo 153-8644, Japan
**VERTEX STANDARD**
**US Headquarters**
10900 Walker Street, Cypress, CA 90630, U.S.A.
**YAESU UK LTD.**
Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.
**VERTEX STANDARD HK LTD.**
Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road,
Kwun Tong, Kowloon, Hong Kong
**VERTEX STANDARD (AUSTRALIA) PTY., LTD.**
Normanby Business Park, Unit 14/45 Normanby Road
Notting Hill 3168, Victoria, Australia

Copyright 2009
VERTEX STANDARD CO., LTD.
All rights reserved.

No portion of this manual
may be reproduced
without the permission of
VERTEX STANDARD CO., LTD.

E A G 3 6 X 1 0 0

STANDARD HORIZON

# RAM3 (CMP30)
# Remote Station Microphone

The **RAM3** (**CMP30**) allows you to remotely control all functions of Standard Horizon fixed mount VHF radios which include the Quantum series, Matrix series, Quest-X, Quest+, PS1000 and PS2000. The full dot matrix display and programmable keys make operation simple and fast. Additional features include turning the radio on/off and all DSC functions including Distress. When connected to the Matrix GX3000S, or the Quantum series, this remote station microphone also controls the 30W PA/hailer functions. The **RAM3** (**CMP30**) can be extended up to 70 feet using the optional CT-100 (23 Foot) extension cable. The **RAM3** (**CMP30**) is backed by an industry leading 3-year waterproof warranty.

**Owner's Manual**

The details of the installation and operation of the **RAM3** (**CMP30**) is included in the owner's manual of the compatible fixed mount radio, or it can be downloaded at www.standardhorizon.com. If you have any questions or comments, please contact Standard Horizon Marine Product Support at 800/767-2450.

STANDARD HORIZON CE

## *Declaration of Conformity*

We, YAESU UK LTD. declare under our sole responsibility that the following equipment complies with the essential requirements of the Directive 1999/5/EC.

| | |
|---|---|
| Type of Equipment: | Handset |
| Brand Name: | STANDARD HORIZON |
| Model Number: | CMP30 |
| Manufacturer: | Vertex Standard Co., Ltd. |
| Address of Manufacturer: | 4-8-8 Nakameguro Meguro-Ku, Tokyo 153-8644, Japan |

Applicable Standards:
This equipment is tested and conforms to the essential requirements of directive, as included in following standards.

| | |
|---|---|
| EMC Standard: | EN 301 843-1 (2004-06) |
| Safety Standard: | EN60950-1:2006 |

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company: YAESU UK LTD.
Address: Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.

## Disposal of your Electronic and Electric Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Electronic and Electric Equipment should be recycled at a facility capable of handling these items and their waste byproducts.

In EU countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.

## RAM3 (CMP30) Installation

1. Connect the Extension Cable to the 8-pin connector on the transceivers rear panel, then tighten the Cable Nut (Figure 1).
2. Referring to Figure 2, attach the supplied ferrite core as close as possible to the MIC plug of the Routing Cable and External Speaker Connections, then snap its two halves together. And then, wind some plastic tape around the ferrite core, to prevent vibration from causing the two halves to split apart and fall off the wires.
3. Referring to Figure 3, make a 1.2" (30 mm) hole in the wall then insert the Extension Cable into this hole. Connect the Gasket and Mount Base to the Extension Cable Connector using the Nut.
4. Drill the four Screw holes (approx. 2 mm) on the wall then install the Mounting Bracket to the wall using four screws.
5. Put the Rubber Cap on to the Nut.
6. The installation is now complete. Connect the **RAM3** (**CMP30**) to the Extension Cable Connector and tighten the Cable Nut.

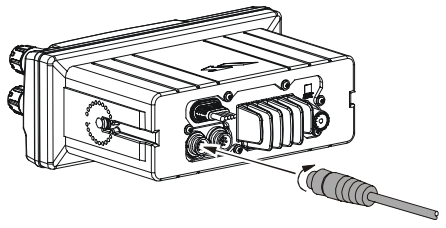


Figure 1

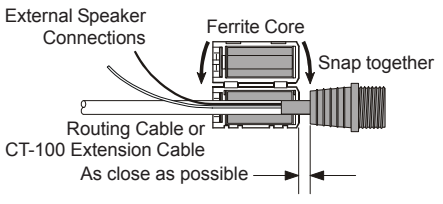



Figure 2

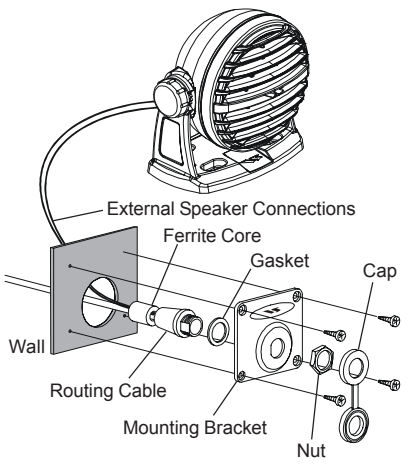



Figure 3

**NOTE**

The routing cable can be cut and spliced, however care needs to be taken when reconnecting the wires to ensure water integrity.
Before cutting the cable make sure it is not plugged into the radio. After cutting you will notice there are the following wires:
Yellow, Green, Brown, Purple, Blue, Green, Red※, and Shield※
※ The Red and Shield wires are wrapped in foil. Remove the foil, and separate the Red and Shield wires.

# Mode Setting & Setup

The **RAM3** (**CMP30**) is backward compatible Standard Horizon VHF radios that use the **RAM+** (**CMP25**) and **VH-310** (telephone style handset).

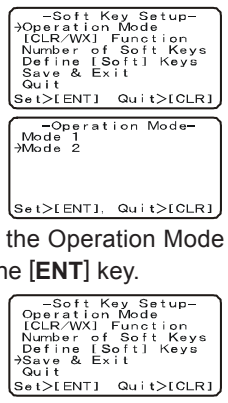
### Mode Selection

The Mode selection allows the **RAM3** (**CMP30**) to be setup to operate with specific models, refer to the section below for compatibility.

**Mode 1**: **GX1256S**, **GX1280S**, and **GX2360S**
**Mode 2**: **PS1000**, **PS2000**, **CPV350**, **CPV550**, **GX1500S/E**, **GX3000S/E**, **GX3500S**※, **GX5000S**, **GX5500S**, and **VM-3500E**※

※ To use **Mode 2** on the **GX3500S** or **VM-3500E** the radio software may have to be updated. Please contact Standard Horizon for details.

1. Turn the **RAM3** (**CMP30**) off, press and hold the [**ENT**] key then press and hold the orange **POWER** (⏻) key until the menu is shown.
2. Press the [▲] or [▼] key to select "**Operation Mode**" item, then press the [**ENT**] key.
3. Press the [▲] or [▼] key to select the Operation Mode ("**Mode 1**" or "**Mode 2**") and press the [**ENT**] key.
4. Press the [▼] key to select "**Save & Exit**" and press the [**ENT**] key.



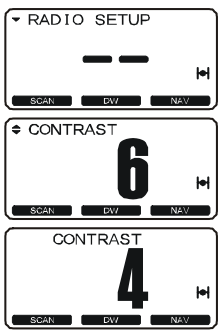

**Important Note**

**Mode 2** only allows the **RAM3** (**CMP30**) to define the [**CLR/WX**] key and assign / Change the number of selectable soft keys.

## LCD Setting

The **RAM3** (**CMP30**) has the capability to change the LCD contrast by following the instructions below.

1. Press and hold down the [**CALL/MENU**] key until "**RADIO SETUP**" menu appears.
2. Press the [**CALL/MENU**] key, then press the [▼] key until the "**CONTRAST**" menu appears.
3. Press the [**CALL/MENU**] key again, then press the [▲] or [▼] key to select the desired contrast level.
4. Press the [**CALL/MENU**] key to store the selected level, then press the [**16/9**] key to exit "**RADIO SETUP**" menu and return to radio operation mode.



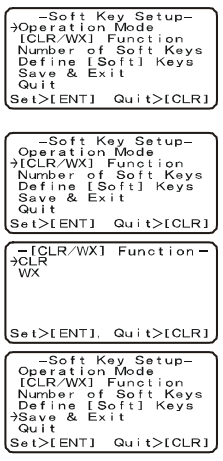

### Key Setup

The following are used only when **Mode 2** is selected and the **RAM3** (**CMP30**) is connected to a compatible radio.

**[CLR/WX] Function:**

The operation of this key may be changed to select WX channels for North American market or CLR for Europe. By default the when the key is pressed, the last selected WX channel will be shown.

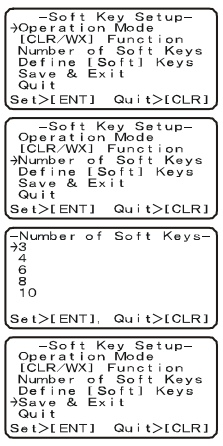
1. To change this key to operate the CLR function, Turn the **RAM3** (**CMP30**) off, press and hold the [**ENT**] key then press and hold the orange **POWER** (⏻) key until the menu is shown.
2. Press the [▼] key to select "[**CLR/WX**] **Function**" and press the [**ENT**] key.
3. Select "**CLR**" and press the [**ENT**] key.
4. Press the [▼] key to select "**Save & Exit**" and press the [**ENT**] key.




**Number of Soft Keys:**

3 soft keys are set as default. However the **RAM3** (**CMP30**) allows assigning of up to 10 soft keys with the instructions below:

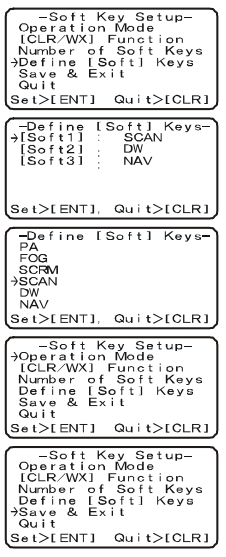
1. Turn the **RAM3** (**CMP30**) off, press and hold the [**ENT**] key then press and hold the orange **POWER** (⏻) key until the menu is shown.
2. Press the [▼] key to select "**Number of Soft keys**" and press the [**ENT**] key.
3. Select the number of soft keys (3, 4, 6, 8 or 10) and press the [**ENT**] key.
4. Press the [▼] key to select "**Save & Exit**" and press the [**ENT**] key.




**Define [Soft] Keys:**

By default the soft keys are assigned as SCAN, DW and NAV, however these keys can be changed. In addition the soft keys can be increased / assigned, refer below:

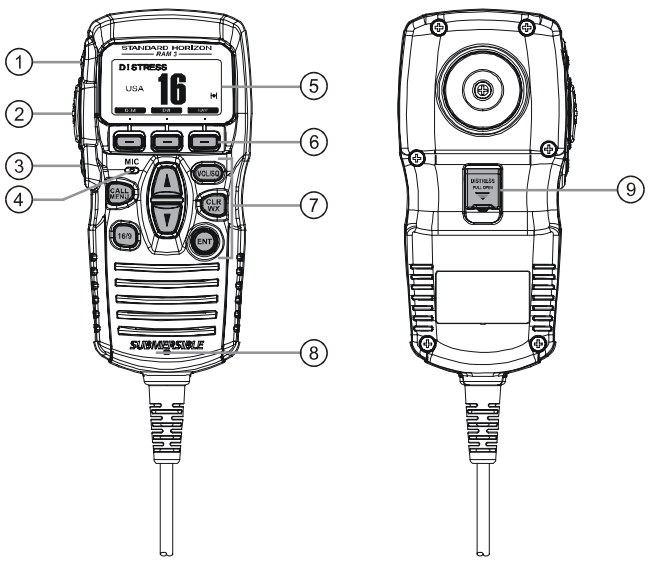
1. Turn the **RAM3** (**CMP30**) off, press and hold the [**ENT**] key then press and hold the orange **POWER** (⏻) key until the menu is shown.
2. Press the [▼] key to select "**Define [Soft] keys**" and press the [**ENT**] key.
3. Press the [▲] or [▼] key to select the [Soft] key, and press the [**ENT**] key. Then, press the [▲] or [▼] key to select the new function to be assigned, and press the [**ENT**] key. Available functions are listed below.
4. Press the [**CLR/WX**] key to return to the "Soft Key Setup" mode.
5. Press the [▼] key to select "**Save & Exit**" and press the [**ENT**] key.




| DISPLAY | FUNCTION※ |
|---|---|
| SCAN | Stops and starts scanning. |
| DW | Stops and starts Dual Watch Scan. |
| NAV | Displays the GPS Navigation Data. |
| DIM | Enables the LCD backlight dimmer function. |
| MEM | When pressed memorizes a channel for scanning. |
| IC | Activates the Intercom function. |
| PA | Operates the PA function. |
| FOG | Operates the Fog Horn function. |
| SCRM | Toggles the Voice Scrambler "on" and "off". |
| WX | Immediately recalls the previously selected US NOAA weather channel. |
| CLR | Cancels the menu selection. |

※: Some functions may not operate depending on the connected radio.

## RAM3 (CMP30) Controls




① **[H/L] Key**
Press this key to toggle the transmit power between high and low. When the [**H/L**] key is pressed while the transceiver is on channel 13 or 67, the power will temporarily switch from LOW to HI power until the **PTT** is released. The [**H/L**] key does not function on transmit inhibited and low power only channels.

② **PTT** (**Push-To-Talk**) **Key**
Press this key to activate the transmission.

③ **POWER** (⏻) **Key**
Press and hold down this key to turn to the transceiver and **RAM3** (**CMP30**) "on" and "off".

④ **Microphone**
The internal microphone is located here.
When transmitting, position your mouth about 1/2 to 1 inch (1.2 ~ 2.5 cm) away from the small mic hole. Speak slowly and clearly into the microphone.

⑤ **DISPLAY**
Channel display.

⑥ **SOFT KEY**
For details, refer to "**Mode Setting and Setup**" above.

⑦ **KEY PAD**
[**CALL/MENU**] Key
Press this key to access the DSC OPERATION menu.
Press and hold this key to access the SETUP menu.

[**16/9**] Key
***First press***: channel 16 is immediately selected.
***Second press***: recalls the last selected channel.
***Press and hold***: selects channel 9.

[▲](**UP**)/[▼](**DOWN**) Key
These keys are used to select channels, adjust the volume and squelch level, and to choose DSC calls, DSC setup and Radio setup function.

[**VOL/SQ**] Key (Volume Control / Squelch Control)
Press this key to toggle the function of the microphone's [▲] or [▼] key between the channel selections, volume level adjustment, and squelch level adjustment.

[**CLR/WX**] Key
For details, refer to "**Mode Setting and Setup**" above.

[**ENT**] Key
This key functions as the enter key.

⑧ **Speaker**
The internal speaker is located here.

⑨ [**DISTRESS**] **KEY**
This key is used to send a DSC Distress Call.
Lift the red spring loaded DISTRESS cover, then press and hold in the [**DISTRESS**] key.

## Optional Accessories

**CT-100 23Ft Extension Cable**

**MLS-300 External Loud Speaker**

**MLS-310 10 watt Amplified Speaker**

## Specifications

| | |
|---|---|
| **Supply voltage**: | 13.8 VDC (Supplied from the transceiver) |
| **Current consumption**: | 700 mA @VOL Max.<br>200 mA @AF Mute |
| **Operating Temperature**: | –4 °F to +140 °F (–20 °C to +60 °C) |
| **MIC. Sensitivity** (Typical): | 60 mVrms<br>@ 1 kHz Tone with 3 kHz Deviation |
| **MIC. Impedance**: | 2 kΩ |
| **AF output**: | 300 mW @ 16 Ω for 10 % THD<br>(Internal Speaker)<br>2 W @ 4 Ω for 10 % THD<br>(External Speaker) |
| **Display Size**: | 1.8" x 0.9" (45 x 23 mm) |
| **Display Resolution**: | 132 x 64 dot |
| **Case Size**: | 2.6" x 5.5" x 1.2" (67 x 140 x 30 mm) |
| **Weight** (Approx): | 11.6 oz (330g) |